

# DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS II135-21 REV. J AND  
INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA135-21 REV. F OR LATER APPROVED REVISIONS  
REF. TCCA STC: SH21-29  
REF. FAA STC: SR02307LA  
REF. EASA STC: 10031793  
REF. MEXICO STC: IA-751/2021

## 1.0 PURPOSE

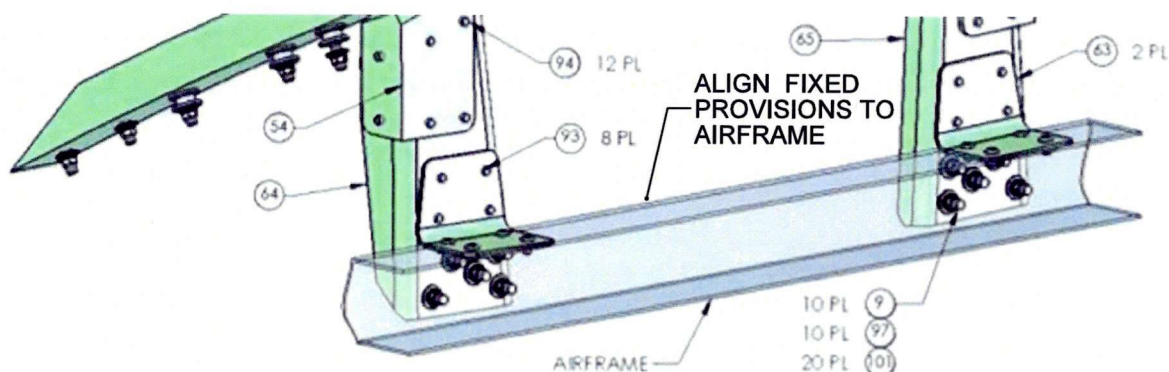
The purpose of this service instruction is to support deviations with installation of Dart Cable Cutter 647.7307

## 2.0 ACCEPTABLE DEVIATIONS

### 2.1 LOCATION OF UPPER CUTTER

**Issue:** The Installation Instructions for the upper cutter indicate that the forward edge of the upper cutter rail should be installed at STA 2323.0. However, it appears that the upper cutter should be moved further aft to align with the aircraft structure.

**Solution:** It is acceptable to move the upper cutter further aft so that the 647.7917 (F/N 64) and 647.7918 (F/N 65) Brackets sit flush with the existing channel on the aircraft as shown in Figure 1 and Figure 2. The STA lines provided in the Installation Instructions should be treated as reference locations only.



**FIGURE 1- UPPER CUTTER INSTALLATION**

CANADA  
DEPARTMENT OF TRANSPORT  
AIRCRAFT CERTIFICATION  
BRANCH  
DAO # 01-O-01

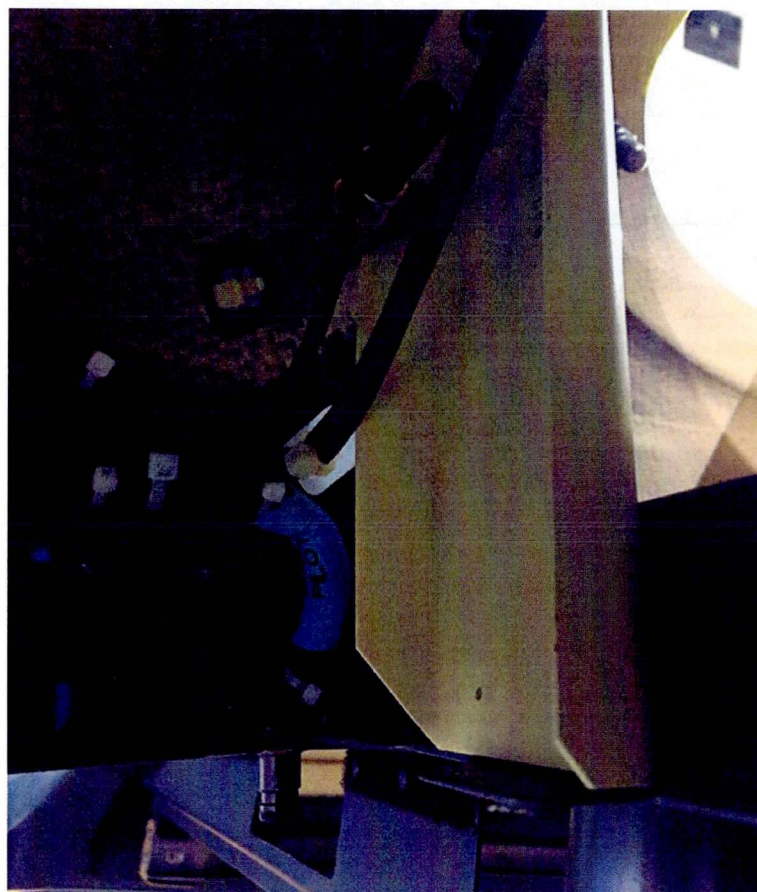
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BY: D. SHEPHERD (DE # 02)

DATE: 21.11.11  
CERT. NO.: SH21-29  
ISSUE NO.: 1

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A	NEW ISSUE	SAD	21.11.11
REV.	DESCRIPTION	BY	DATE
DESIGN	SAD	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
DRAWN	SAD		
CHECKED	RF	DRAWING NO.	REV. A
MFG. APPR.	N/A	<b>DSI 9867</b>	SHEET 1 OF 3
APPROVED	IT	TITLE	SCALE
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**FIGURE 2- UPPER CUTTER INSTALLATION**

## **2.2 FASTENER SIZE (F/N 72) FOR LOWER CUTTER**

**Issue:** The M6 bolts provided with the kit are not compatible with the #10-32 nut plates also provided with the kit.

**Solution:** It is acceptable to install Bolt P/N NAS6603-12 (Ref. DART P/N 601.1500) or NAS6603-16 (Ref. Dart P/N 601.3130) into the #10-32 nut plates in lieu of the M6 bolts provided in the kit.

## **2.3 LENGTH OF AN44 EYEBOLT HARDWARE**

**Issue:** F/N 112, eyebolt AN44-10A, is too short for some Installations.

**Solution:** It is acceptable to replace the AN44-10A eyebolt with longer AN44-12A eyebolt. As a general rule it is acceptable to replace a fastener with a longer one with same base part number to ensure 1.5 to 4 threads in safety.

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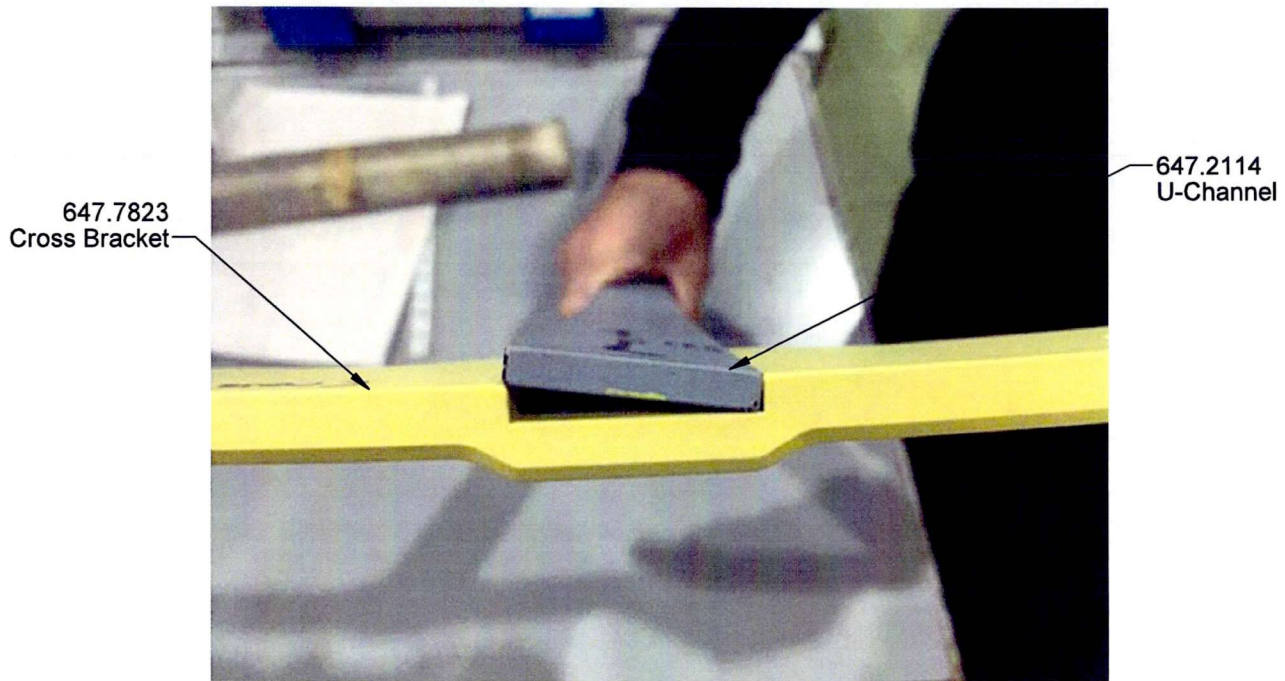
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## **2.4 INTERFERENCE BETWEEN 647.2114 AND 647.7823**

**Issue:** The 647.2114 U-Channel does not fit into the 647.7823 Cross Bracket. The Cross Bracket has a 33.0 mm recess and the U-Channel is approx 0.6 mm wider. See Figure 3.

**Solution:** It is acceptable to relieve the 647.7823 Cross Bracket to improve the fit of the 647.2114 U-Channel. Ensure there are no sharp edges/corners. Touch up finish with alodine and primer in accordance with Dart ICA135-21 and/or the Aircraft Maintenance Manual.



**FIGURE 3 - INTERFERENCE BETWEEN 647.2114 AND 647.7823**

## **3.0 WEIGHT AND BALANCE**

This DSI has negligible effect on weight and balance.

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